

PROJECT NO. CH1803 PCC BREAKING & SEATING, BITUMINOUS OVERLAY, MINOR GRADING & INCIDENTALS ON CASS HIGHWAY 17 FROM CASS HIGHWAY 10 TO INTERSTATE 29			ESTIMATED QUANTITIES		ENGINEER'S ESTIMATE		Central Specialties Inc. 6325 County Road 87 SW Alexandria, MN 56308		Mark Sand & Gravel Co. 525 Kennedy Park Road Fergus Falls, MN 56537		Border States Paving Inc. PO Box 2586 Fargo,ND 58108		Minn-Dak Asphalt Inc 423 West Zeh St Thief River Falls, MN 56701		Knife River Materials PO Box 40 Bemidji, MN 56619	
ITEM	SPEC NO.	DESCRIPTION	UNIT	APPROX. QUANTITY	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
1	103	CONTRACT BOND	L SUM	1	\$5,000.00	\$5,000.00	\$10,000.00	\$10,000.00	\$4,000.00	\$4,000.00	\$17,750.00	\$17,750.00	\$25,000.00	\$25,000.00	\$20,000.00	\$20,000.00
2	107	RAILWAY PROTECTION INSURANCE	L SUM	1	\$2,000.00	\$2,000.00	\$5,000.00	\$5,000.00	\$3,500.00	\$3,500.00	\$500.00	\$500.00	\$3,570.00	\$3,570.00	\$10,000.00	\$10,000.00
3	201	CLEARING AND GRUBBING	L SUM	1	\$5,000.00	\$5,000.00	\$2,500.00	\$2,500.00	\$7,500.00	\$7,500.00	\$7,730.00	\$7,730.00	\$7,650.00	\$7,650.00	\$7,500.00	\$7,500.00
4	202	REMOVAL OF CURB	LF	60	\$5.00	\$300.00	\$15.00	\$900.00	\$8.00	\$480.00	\$8.20	\$492.00	\$8.16	\$489.60	\$8.00	\$480.00
5	202	REMOVE BITUMINOUS SURFACING	SY	6,183	\$10.00	\$61,830.00	\$7.00	\$43,281.00	\$2.50	\$15,457.50	\$2.60	\$16,075.80	\$2.88	\$17,807.04	\$6.25	\$38,643.75
6	202	REMOVAL OF CONCRETE PAVEMENT	SY	14,132	\$10.00	\$141,320.00	\$4.00	\$56,528.00	\$4.00	\$56,528.00	\$4.10	\$57,941.20	\$4.08	\$57,658.56	\$4.00	\$56,528.00
7	202	SAWING BITUMINOUS PAVEMENT-FULL DEPTH	LF	968	\$5.00	\$4,840.00	\$0.01	\$9.68	\$3.50	\$3,388.00	\$4.80	\$4,646.40	\$10.00	\$9,680.00	\$2.25	\$2,178.00
8	203	TOPSOIL	CY	16,604	\$5.00	\$83,020.00	\$5.00	\$83,020.00	\$2.65	\$44,000.60	\$2.70	\$44,830.80	\$2.70	\$44,830.80	\$2.65	\$44,000.60
9	203	TOPSOIL - IMPORT	CY	5,747	\$7.00	\$40,229.00	\$6.00	\$34,482.00	\$12.50	\$71,837.50	\$12.90	\$74,136.30	\$12.75	\$73,274.25	\$12.50	\$71,837.50
10	203	COMMON EXCAVATION - TYPE B	CY	51,636.60	\$5.00	\$258,183.00	\$5.00	\$258,183.00	\$2.65	\$136,836.99	\$2.70	\$139,418.82	\$2.70	\$139,418.82	\$2.65	\$136,836.99
11	203	COMMON EXCAVATION - WASTE	CY	5,737.40	\$10.00	\$57,374.00	\$10.50	\$60,242.70	\$6.45	\$37,006.23	\$6.60	\$37,866.84	\$6.58	\$37,752.09	\$6.45	\$37,006.23
12	203	BORROW-EXCAVATION	CY	6,274	\$10.00	\$62,740.00	\$6.00	\$37,644.00	\$6.45	\$40,467.30	\$6.60	\$41,408.40	\$6.58	\$41,282.92	\$6.45	\$40,467.30
13	210	SELECT BACKFILL	TON	978	\$22.00	\$21,516.00	\$18.50	\$18,093.00	\$18.55	\$18,141.90	\$19.10	\$18,679.80	\$18.92	\$18,503.76	\$18.55	\$18,141.90
14	216	WATER	M GAL	500	\$25.00	\$12,500.00	\$25.00	\$12,500.00	\$15.00	\$7,500.00	\$20.00	\$10,000.00	\$25.50	\$12,750.00	\$22.00	\$11,000.00
15	230	SUBGRADE PREPARATION-TYPE A-SHOULDERS	MILE	3.5	\$500.00	\$1,750.00	\$3,500.00	\$12,250.00	\$9,800.00	\$34,300.00	\$10,100.00	\$35,350.00	\$9,996.00	\$34,986.00	\$9,800.00	\$34,300.00
16	251	SEEDING CLASS III	ACRE	80.32	\$1,000.00	\$80,320.00	\$615.00	\$49,396.80	\$615.00	\$49,396.80	\$633.00	\$50,842.56	\$678.30	\$54,481.06	\$429.00	\$34,457.28
17	251	TEMPORARY COVER CROP	ACRE	15.00	\$1,500.00	\$22,500.00	\$150.00	\$2,250.00	\$150.00	\$2,250.00	\$155.00	\$2,325.00	\$89.76	\$1,346.40	\$100.00	\$1,500.00
18	253	STRAW MULCH	ACRE	64.26	\$350.00	\$22,491.00	\$275.00	\$17,671.50	\$275.00	\$17,671.50	\$283.00	\$18,185.58	\$418.20	\$26,873.53	\$240.00	\$15,422.40
19	253	HYDRAULIC MULCH	ACRE	16.06	\$351.00	\$5,637.06	\$1,050.00	\$16,863.00	\$1,050.00	\$16,863.00	\$1,080.00	\$17,344.80	\$4,773.60	\$76,664.02	\$1,675.00	\$26,900.50
20	255	EROSION CONTROL BLANKET TYPE 1	SY	294.00	\$2.00	\$588.00	\$2.95	\$867.30	\$2.95	\$867.30	\$3.00	\$882.00	\$10.20	\$2,998.80	\$4.00	\$1,176.00
21	261	TEMPORARY FIBER ROLLS 12 IN	LF	960	\$3.00	\$2,880.00	\$2.50	\$2,400.00	\$2.50	\$2,400.00	\$2.60	\$2,496.00	\$2.40	\$2,304.00	\$4.00	\$3,840.00
22	261	PERMANENT FIBER ROLLS 12 IN	LF	5,790	\$4.00	\$23,160.00	\$2.50	\$14,475.00	\$2.50	\$14,475.00	\$2.60	\$15,054.00	\$2.40	\$13,896.00	\$4.00	\$23,160.00
23	302	AGGREGATE BASE COURSE CL 5	TON	1,288	\$22.00	\$28,336.00	\$25.00	\$32,200.00	\$25.00	\$32,200.00	\$17.60	\$22,668.80	\$22.50	\$28,980.00	\$28.00	\$36,064.00
24	302	CRUSHED CONCRETE	TON	27,617.75	\$22.00	\$607,590.50	\$16.00	\$441,884.00	\$21.70	\$599,305.18	\$18.40	\$508,166.60	\$25.93	\$716,128.26	\$18.00	\$497,119.50
25	302	REMOVE & RELAY AGGREGATE BASE COURSE	CY	1,625	\$20.00	\$32,500.00	\$35.00	\$56,875.00	\$23.20	\$37,700.00	\$15.30	\$24,862.50	\$12.75	\$20,718.75	\$45.00	\$73,125.00
26	411	MILLING PAVEMENT SURFACE - (PATCHES)	SY	3,227	\$5.00	\$16,135.00	\$8.00	\$25,816.00	\$6.50	\$20,975.50	\$5.00	\$16,135.00	\$3.08	\$9,939.16	\$7.50	\$24,202.50
27	430	RAP - SUPERPAVE FAA 42	TON	58,365.30	\$35.00	\$2,042,785.50	\$27.29	\$1,592,789.04	\$29.05	\$1,695,511.97	\$36.00	\$2,101,150.80	\$36.00	\$2,101,150.80	\$40.00	\$2,334,612.00
28	430	CORED SAMPLE	EA	75	\$25.00	\$1,875.00	\$20.00	\$1,500.00	\$55.00	\$4,125.00	\$34.00	\$2,550.00	\$35.00	\$2,625.00	\$15.00	\$1,125.00
29	430	PG 58-28 ASPHALT CEMENT	TON	2,918	\$500.00	\$1,459,000.00	\$380.00	\$1,108,840.00	\$385.00	\$1,123,430.00	\$250.00	\$729,500.00	\$280.00	\$817,040.00	\$325.00	\$948,350.00
30	550	9IN NON-REINF CONCRETE PAVEMENT CL AE-DOWELED	SY	1,067	\$75.00	\$80,025.00	\$63.65	\$67,914.55	\$63.65	\$67,914.55	\$65.60	\$69,995.20	\$150.00	\$160,050.00	\$100.00	\$106,700.00
31	550	PCC PAVEMENT BREAKING & SEATING	SY	74,804	\$1.25	\$93,505.00	\$0.50	\$37,402.00	\$0.60	\$44,882.40	\$0.60	\$44,882.40	\$0.54	\$40,394.16	\$0.75	\$56,103.00
32	570	SAW CONCRETE	LF	456	\$4.00	\$1,824.00	\$3.00	\$1,368.00	\$6.00	\$2,736.00	\$6.40	\$2,918.40	\$12.00	\$5,472.00	\$3.00	\$1,368.00
33	702	MOBILIZATION	L SUM	1	\$50,000.00	\$50,000.00	\$215,000.00	\$215,000.00	\$170,000.00	\$170,000.00	\$250,000.00	\$250,000.00	\$156,000.00	\$156,000.00	\$151,500.00	\$151,500.00
34	704	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	56	\$100.00	\$5,600.00	\$50.00	\$2,800.00	\$50.00	\$2,800.00	\$51.50	\$2,884.00	\$51.00	\$2,856.00	\$50.00	\$2,800.00
35	704	TRAFFIC CONTROL	L SUM	1	\$40,000.00	\$40,000.00	\$7,300.00	\$7,300.00	\$20,000.00	\$20,000.00	\$78,800.00	\$78,800.00	\$7,446.00	\$7,446.00	\$5,900.00	\$5,900.00
36	706	BITUMINOUS LABORATORY	EA	1	\$5,000.00	\$5,000.00	\$6,000.00	\$6,000.00	\$8,000.00	\$8,000.00	\$5,000.00	\$5,000.00	\$4,800.00	\$4,800.00	\$3,500.00	\$3,500.00
37	706	CONTRACTORS LABORATORY	EA	1	\$5,000.00	\$5,000.00	\$6,000.00	\$6,000.00	\$8,000.00	\$8,000.00	\$5,000.00	\$5,000.00	\$4,800.00	\$4,800.00	\$3,500.00	\$3,500.00
38	709	GEOTEXTILE FABRIC - TYPE R1	SY	27,220.44	\$3.00	\$81,661.32	\$2.00	\$54,440.88	\$2.00	\$54,440.88	\$2.40	\$65,329.06	\$2.04	\$55,529.70	\$1.80	\$48,996.79
39	714	PIPE CORR STEEL .079IN 24IN	LF	1,868	\$50.00	\$93,400.00	\$40.00	\$74,720.00	\$30.00	\$56,040.00	\$30.90	\$57,721.20	\$30.60	\$57,160.80	\$30.00	\$56,040.00
40	714	PIPE CORR STEEL .079IN 36IN	LF	194	\$80.00	\$15,520.00	\$50.00	\$9,700.00	\$42.00	\$8,148.00	\$43.30	\$8,400.20	\$42.84	\$8,310.96	\$42.00	\$8,148.00
41	714	PIPE CORR STEEL .109IN 42IN	LF	58	\$120.00	\$6,960.00	\$70.00	\$4,060.00	\$61.00	\$3,538.00	\$62.80	\$3,642.40	\$62.22	\$3,608.76	\$61.00	\$3,538.00
42	714	PIPE CORR STEEL .109IN ARCH 35IN X 24IN	LF	68	\$70.00	\$4,760.00	\$80.00	\$5,440.00	\$48.00	\$3,264.00	\$49.40	\$3,359.20	\$48.96	\$3,329.28	\$48.00	\$3,264.00
43	714	PIPE CORR STEEL .109IN ARCH 42IN X 29IN	LF	146	\$80.00	\$11,680.00	\$85.00	\$12,410.00	\$55.00	\$8,030.00	\$56.70	\$8,278.20	\$56.10	\$8,190.60	\$55.00	\$8,030.00
44	714	PIPE CONC REINF 24IN CLII	LF	96	\$150.00	\$14,400.00	\$90.00	\$8,640.00	\$105.00	\$10,080.00	\$108.00	\$10,368.00	\$107.10	\$10,281.60	\$105.00	\$10,080.00
45	714	END SECT CORR STEEL .064IN 18IN	EA	2	\$300.00	\$600.00	\$200.00	\$400.00	\$135.00	\$270.00	\$139.00	\$278.00	\$137.70	\$275.40	\$135.00	\$270.00
46	714	END SECT CORR STEEL .064IN 24IN	EA	80	\$300.00	\$24,000.00	\$225.00	\$18,000.00	\$175.00	\$14,000.00	\$180.00	\$14,400.00	\$178.50	\$14,280.00	\$175.00	\$14,000.00
47	714	END SECT CORR STEEL .079IN 36IN	EA	3	\$300.00	\$900.00	\$410.00	\$1,230.00	\$385.00	\$1,155.00	\$397.00	\$1,191.00	\$392.50	\$1,177.50	\$385.00	\$1,155.00
48	714	END SECT CORR STEEL .079IN 42IN	EA	2	\$300.00	\$600.00	\$775.00	\$1,550.00	\$760.00	\$1,520.00	\$783.00	\$1,566.00	\$775.20	\$1,550.40	\$760.00	\$1,520.00
49	714	END SECT CORR STEEL .079IN ARCH 35IN X 24IN	EA	4	\$350.00	\$1,400.00	\$415.00	\$1,660.00	\$300.00	\$1,200.00	\$309.00	\$1,236.00	\$306.00	\$1,224.00	\$300.00	\$1,200.00
50	714	END SECT CORR STEEL .079IN ARCH 42IN X 29IN	EA	8	\$350.00	\$2,800.00	\$515.00	\$4,120.00	\$425.00	\$3,400.00	\$438.00	\$3,504.00	\$433.50	\$3,468.00	\$425.00	\$3,400.00
51	714	END SECT CONC REINF 24IN CLII	EA	2	\$1,500.00	\$3,000.00	\$815.00	\$1,630.00	\$835.00	\$1,670.00	\$860.00	\$1,720.00	\$851.70	\$1,703.40	\$835.00	\$1,670.00
52	714	LINING CULVERT PIPE 18IN	LF	92	\$300.00	\$27,600.00	\$140.00	\$12,880.00	\$140.00	\$12,880.00	\$144.00	\$13,248.00	\$142.80	\$13,137.60	\$140.00	\$12,880.00
53	714	LINING CULVERT PIPE 24IN	LF	1,116	\$300.00	\$334,800.00	\$163.00	\$181,908.00	\$163.00	\$181,908.00	\$168.00	\$187,488.00	\$166.26	\$185,546.16	\$163.00	\$181,908.00
54	714	LINING CULVERT PIPE 24IN X 35IN	LF	88	\$350.00	\$30,800.00	\$280.00	\$24,640.00	\$280.00	\$24,640.00	\$288.00	\$25,344.00	\$285.60	\$25,132.80	\$280.00	\$24,640.00
55	714	LINING CULVERT PIPE 29IN X 42IN	LF	184	\$350.00	\$64,400.00	\$340.00	\$62,560.00	\$340.00	\$62,560.00	\$350.00	\$64,400.00	\$346.80	\$63,811.20	\$340.00	\$62,560.00
56	748	CURB & GUTTER	LF	60	\$30.00	\$1,800.00	\$49.75	\$2,985.00	\$49.75	\$2,985.00	\$51.20	\$3,072.00	\$125.00	\$7,500.00	\$65.00	\$3,900.00
57	754	REMOVE & RESET SIGN PANEL	EA	28	\$60.00	\$1,680.00	\$103.00	\$2,884.00	\$150.00	\$4,200.00	\$106.00	\$2,968.00	\$105.06	\$2,941.68	\$150.00	\$4,200.00
58	760	SINUSOIDAL RUMBLE STRIPS-ASPHALT SHOULDER	MILE	12	\$1,200.00	\$14,400.00	\$1,848.00	\$22,176.00	\$1,848.00	\$22,176.00	\$1,900.00	\$22,800.00	\$1,995.12	\$23,941.44	\$1,848.00	\$22,176.00
59	762	PREFORMED PATTERNED PVMT MK-MESSAGE(GROOVED)	SF	917	\$20.00	\$18,340.00	\$18.72	\$17,166.24	\$18.72	\$17,166.24	\$19.30	\$17,698.10	\$19.09	\$17,505.53	\$22.50	\$20,632.50
60	762	SHORT TERM 4 IN BROKEN LINE-PNT TAPE OR RSD MRK	LF	23,736	\$0.15	\$3,560.40	\$0.05	\$1,186.80	\$0.10	\$2,373.60	\$0.05	\$1,186.80	\$0.05	\$1,186.80	\$0.18	\$4,272.48
61	762	SHORT TERM 4 IN LINE NPZ - PN TP OR RS MRK	LF	77,480	\$0.15	\$11,622.00	\$0.05	\$3,874.00	\$0.10	\$7,748.00	\$0.05	\$				